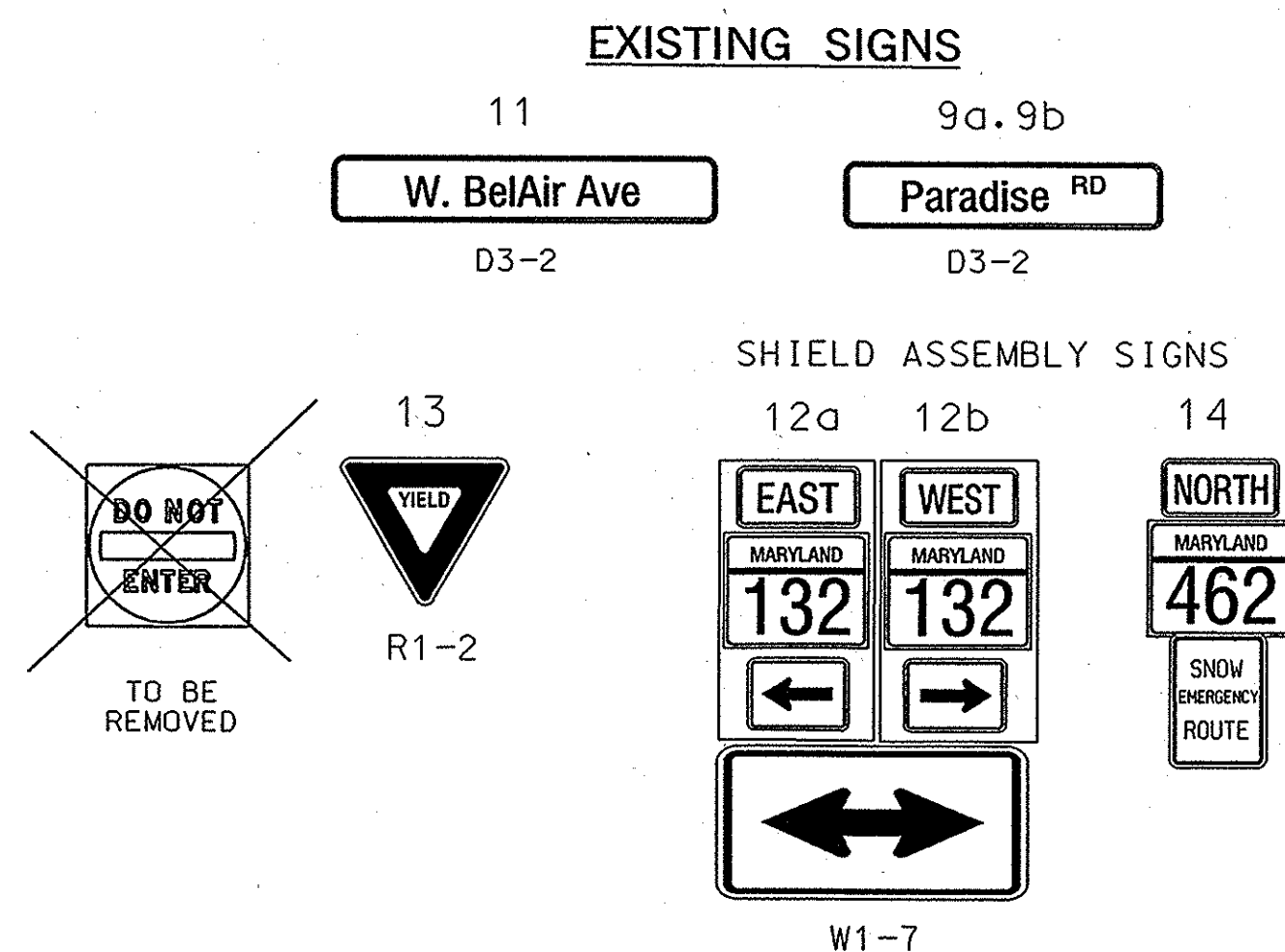


MD 132 (W. BEL AIR AVE.) IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION



**EXISTING SIGNALS**

1-6

R

Y

G

12"

**PROPOSED SIGNS**

10 DO NOT ENTER R5-1 30" x 30"

7 8 R10-4(1) 9'x15"

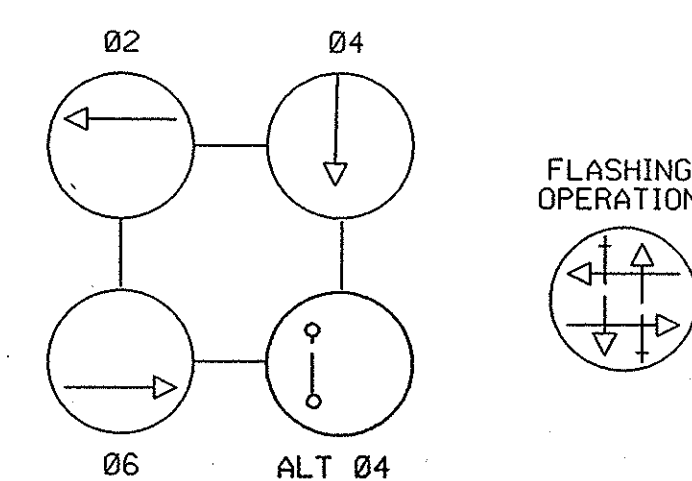
AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON AND SIGN

**PROPOSED LED PEDESTRIAN HEADS**

7, 8

16" COUNTDOWN

**NEMA PHASING**

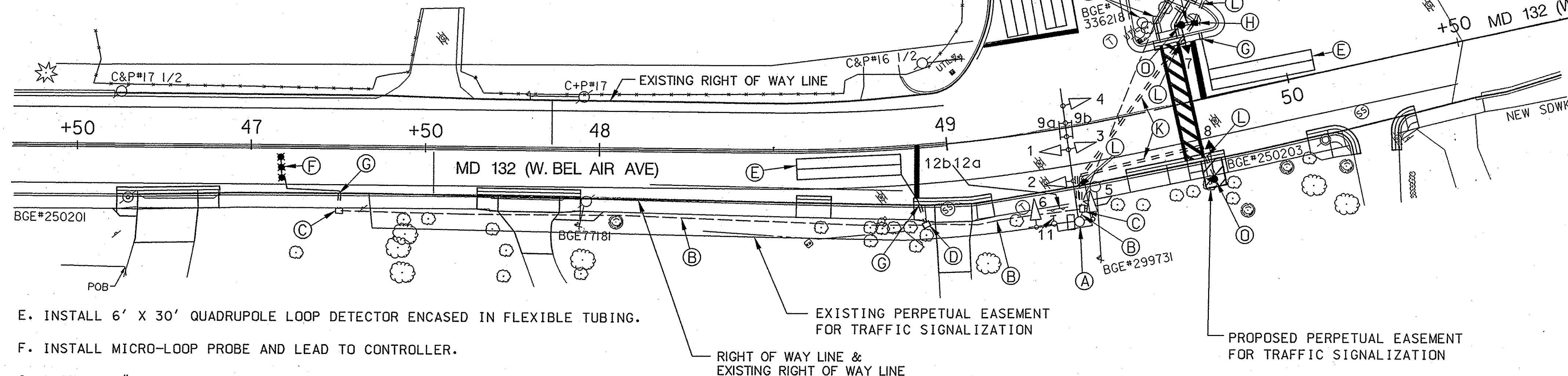


NOTE: PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

NOTE: THE PROPOSED DETECTION SHALL BE INSTALLED IN THE APPROXIMATE LOCATION AS THE EXISTING DETECTION BEING ABANDON.

**CONSTRUCTION DETAILS**

- A. USE EXISTING POLE, TRAFFIC SIGNAL HEADS AND CONTROLLER CABINET. REMOVE THE EXISTING PUSHBUTTON AND PLUG THE OPENING IN THE POLE.
- B. USE EXISTING CONDUIT, REMOVE THE UN-USED CABLES.
- C. USE EXISTING HANDHOLE.
- D. USE EXISTING HANDHOLE, ADJUST THE FRAME AND COVER.



- E. INSTALL 6' X 30' QUADRUPOLE LOOP DETECTOR ENCASED IN FLEXIBLE TUBING.
- F. INSTALL MICRO-LOOP PROBE AND LEAD TO CONTROLLER.
- G. INSTALL 1" LIQUID TIGHT NON-METALLIC FLEX TUBING FOR DETECTOR SLEEVE.
- H. INSTALL ELECTRICAL HANDHOLE.
- J. INSTALL 3" SCHEDULE 80 RIGID PVC CONDUIT- TRENCHED.
- K. INSTALL 4" SCHEDULE 80 RIGID PVC CONDUIT- SLOTTED.
- L. INSTALL 4" SCHEDULE 80 RIDIG PVD CONDUIT- TRENCHED.
- M. REMOVE EXISTING AND INSTALL PROPOSED GROUND MOUNTED SIGN AND SUPPORT.
- N. REMOVE PUSHBUTTON PEDESTAL POLE, EQUIPMENT AND FOUNDATION 12" BELOW GRADE. REMOVE THE EXISTING HANDHOLE (COVER WITH LANDSCAPING), CAP AND ABANDON THE CONDUIT.
- O. INSTALL 10' PEDESTAL POLE WITH BREAKAWAY BASE, LED COUNTDOWN PEDESTRIAN SIGNAL HEAD AND AUDIBLE PUSHBUTTON WITH SIGNS, (NOTE: 1-3" 90° PVC BEND).

**GENERAL NOTES:**

1. ALL UNDERGROUND UTILITIES SHOWN ON PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING "MISS UTILITY" PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE PROPOSED TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
2. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS. HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTION, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, AND MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL PROPOSED SIGNAL EQUIPMENT.
3. PUSHBUTTONS ARE TO BE INSTALLED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEEL CHAIR FROM A 60" X 60" LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
4. LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTON MUST MEET LOCATION REQUIREMENTS OF "MD-MUTC" SECTION 4E.09 AND FIG. 4E.2 AND THE "NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE". IF NOT MET, THE CONTRACTOR SHALL STOP WORK ON THE PUSHBUTTON LOCATION UNTIL A DESIGN WAIVER IS OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.
5. PROPOSED SIGNAL EQUIPMENT AND CONDUIT SHALL BE INSTALLED PRIOR TO THE CONSTRUCTION OF THE SIDEWALK, PEDESTRIAN RAMPS, THE DETECTABLE WARNING SURFACE AND PRIOR TO THE FINAL ROAD SURFACE.
6. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE UNUSED CABLES FROM THE EXISTING HANDHOLES AND CONDUIT UTILIZED FOR REVISION 'B'.
7. THE CONTRACTOR SHALL PURCHASE AND DELIVER THE "APS" CENTRAL CONTROL UNIT FOR THE CONTROLLER TO THE SHA SIGNAL SHOP AT 7491 CONNELLEY DRIVE, HANOVER, MD 21076. MR. EDWARD RODENHIZER AT 410 787-7652 SHALL BE CONTACTED AT LEAST 3 DAYS PRIOR TO THE DELIVERY.

1 REDLINE REVISION  
7/27/2007  
NEW SHEET

**CENTURY**  
ENGINEERING  
CONSULTING ENGINEERS - PLANNERS  
10710 GILROY ROAD  
HUNT VALLEY, MD 21031

REVISION 'B'

26086.01

APPROVALS		REVISIONS		TRAFFIC SIGNAL PLAN	
ORIGINAL ON FILE		⑥ ADD APS AND CD PEDESTRIAN CROSSING EAST LEG MD 132 SHA# HA4565177 TMS # 1-299		SCALE 1"=20'	DATE OCTOBER, 1978 CONTRACT NO. H800501485
TEAM LEADER		EMM		DESIGNED BY D.D	COUNTY HARFORD
ASST. DIR. CHIEF		A REPLACE SIGNAL HEADS 9/2000		DRAWN BY	LOGMILE 12013201.16
DIVISION CHIEF		REPLACE WB LOOPS & PROBE SHA# HA1915176 TMS E 086		CHECKED BY	TMS NO. 1-299
OFFICE DIRECTOR				FAP NO.	TOD NO.
				TS NO. 1641 B	DRAWING -1 OF 2 SHEET NO. 46B OF 60

PLOTTED: Friday, July 27, 2007 AT 01:17 PM  
FILE: C:\TRANSDWG\md132\m5g-P001\_MD132\_MD462.dgn

**SHA**

STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 132 (W. BEL AIR AVE) AT  
MD 462 (PARADISE RD.)  
IN ABERDEEN, MD